

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing of claims in the application.

1. (Original) A digital film processing system, comprising:
a first light source operable to illuminate film;
a first sensor operable to produce a first output in response to a first amount of light reflected from the film for a first time interval;
a second sensor operable to produce a second output in response to a second amount of light passed through the film for the first time interval; and
processing circuitry coupled to the first light source and operable to adjust the output of the first light source in response to the first and second outputs so that the first sensor and the second sensor do not saturate.

2. (Original) The system of claim 1, wherein the processing circuitry is further operable to adjust image data obtained from the film in response to the first and second outputs.

3. (Original) The system of claim 1, wherein the processing circuitry is further operable to adjust the output of the first light source in response to a film type.

4. (Original) The system of claim 1, wherein the first amount of light is reflected from at least one unexposed region of the film and the second amount of light is passed through the at least one unexposed region of the film.

5. (Original) The system of claim 1, wherein the film has developing chemical applied thereto.

6. (Original) The system of claim 1, wherein the processing circuitry is further operable to save a last operating point of one of the group consisting of the first sensor and the first light source in a storage medium.

7. (Original) A method for digital film processing, comprising;

illuminating a film with a first light source; producing a first output in response to a first amount of light reflected from the film with a first sensor for a first time interval;

producing a second output in response to a second amount of light passed through the film with a second sensor for the first time interval; and

adjusting the output of the first light source in response to the first and second outputs so that the first sensor and the second sensor do not saturate.

8. (Original) The method of claim 7, further comprising adjusting image data obtained from the film in response to the first and second outputs.

9. (Original) The method of claim 8, wherein the image data are adjusted in response to a gain level derived from the first and second outputs.

10. (Original) The method of claim 7, wherein the film has a developing chemical applied thereto.

11. (Original) The method of claim 7, wherein the first amount of light is reflected from at least one unexposed region of the film and the second amount of light is illuminated through the at least one unexposed region of the film.

12. (Original) The method of claim 7, further comprising adjusting the output of the first light source in response to a film type.

13. (Original) A system for developing and processing film comprising:

an applicator operable to coat a processing solution onto the film, the processing solution initiating development of the film;

a light source operable to illuminate the coated film with light;

a sensor operable to measure the light from the coated film; and

processing circuitry operable to vary an intensity of the light illuminating the coated film.

14. (Original) The system of claim 13, wherein the processing circuitry operates to vary the intensity of the light in response to a sensor measurement from an unexposed portion of the coated film.

15. (Original) The system of claim 14, wherein the film is substantially dry.

16. (Original) The system of claim 13, wherein the sensor is operable to measure light transmitted through the coated film.

17. (Original) The system of claim 13, wherein the sensor is operable to measure light reflected from the coated film.

18. (Original) The system of claim 17, wherein the light operates to produce infrared light.

19. (Original) The system of claim 17, wherein the light operates to produce visible light.

20. (Original) The system of claim 13, wherein the processing circuitry operates to vary the intensity of the light illuminating the coated film to substantially prevent saturation of the sensor.

21. (Currently amended) A system for developing and processing film comprising:
an applicator operable to coat a processing solution onto the film,
the processing solution initiating development of the film;
a light source operable to illuminate the coated film with light;
a sensor operable to measure the light from the coated film; and
processing circuitry operable to set an intensity of the light illuminating the coated film ~~The system of claim 13, wherein the processing circuitry operates to set the intensity of light~~ for each frame of the coated film.

22. (Currently amended) A system for developing and processing film comprising:
an applicator operable to coat a processing solution onto the film,
the processing solution initiating development of the film;
a light source operable to illuminate the coated film with light and
so that the light can pass through the coated film;
a sensor operable to measure the light transmitted through the
coated film; and
processing circuitry operable to vary an intensity of the light
illuminating the coated film and ~~The system of claim 16, wherein the processing~~
~~circuitry is further operable~~ to adjust the output of the first light source in
response to a film type.

23. (Currently amended) A system for developing and processing film comprising:
an applicator operable to coat a processing solution onto the film,
the processing solution initiating development of the film;
a light source operable to illuminate the coated film with ~~The~~
~~system of claim 16, wherein the light source operates to produce~~ light within the
visible portion of the electromagnetic spectrum and so that the light can pass
through the coated film;
a sensor operable to measure the light transmitted through the
coated film; and
processing circuitry operable to vary an intensity of the light
illuminating the coated film.

24. (Currently amended) A system for developing and processing film comprising:
an applicator operable to coat a processing solution onto the film,
the processing solution initiating development of the film;
a light source operable to illuminate the coated film with ~~The~~
~~system of claim 16, wherein the light source operates to produce~~ infrared light;
a sensor operable to measure the light transmitted through the
coated film; and

processing circuitry operable to vary an intensity of the light illuminating the coated film.

25. (Currently amended) A system for developing and processing film comprising:

an applicator operable to coat a processing solution onto the film, the processing solution initiating development of the film;

a light source operable to illuminate the coated film with ~~The system of claim 15, wherein the light source operates to produce~~ visible light and infrared light;

a sensor operable to measure the light from the coated film; and processing circuitry operable to vary an intensity of the light illuminating the coated film.

26. (New) The system of claim 25, wherein the light source produces the visible light and the infrared light in series.

27. (New) The system of claim 25, wherein the light source produces the visible light and the infrared light in combination.

28. (New) A digital photographic film processing system, comprising:

a light source operable to illuminate and so that the light can pass through the film;

first and second sensors operable to produce first and second outputs in response to a first amount of light reflected from the film for a first time interval and a second amount of light passed through the film for the first time interval, in order to generate a resultant image; and

processing circuitry coupled to the light source and operable to adjust the output of the light source in response to the first and second outputs so that the first sensor and the second sensor do not saturate.

29. (New) The system of claim 28, wherein the processing circuitry adjusts the output of the light source by controlling energy the light source gives off as a function of time .

30. (New) The system of claim 28, wherein the processing circuitry adjusts the output of the light source by controlling energy the light source gives off as a function of amplitude.

31. (New) A system for developing and processing film comprising:
an applicator operable to coat a processing solution onto the film, the processing solution initiating development of the film;
a light source operable to illuminate the coated film with light;
a sensor operable to measure the light from the coated film simultaneous with development of the film; and
processing circuitry operable to vary an intensity of the light illuminating the coated film.

32. (New) A system for developing and processing film comprising:
an applicator operable to apply a developing chemical to the film;
a light source operable to illuminate the film with light;
a sensor operable to measure the light from the film while the film has the developing chemical applied to the film; and
processing circuitry operable to vary an intensity of the light illuminating the film.